

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A device usable for forming an alignment layer of a display apparatus, the device comprising:

a printing part to print an alignment layer on a substrate;

a drying part positioned above the printing part to dry the alignment layer printed on the substrate; and

a transferring part to transfer the substrate including a transfer robot to transfer the substrate from the printing part to the drying part by elevating the substrate,

wherein the drying part is positioned directly and vertically above the printing part, thereby saving time, lowering adsorption of particles to the substrate, and preventing defects in a drying process;

wherein a time to receive the substrate in the printing part is different from a time to transfer the substrate on which the alignment layer is printed in the drying part positioned directly and vertically above the printing part; and

wherein the substrate received in the printing part and the substrate on which the alignment layer is printed in the drying part are the same substrate.

2. (Original) The device of claim 1, further comprising:

at least one inkjet head to spray an alignment material onto the substrate and thereby print the alignment layer and being positioned between the printing part and the drying part.

3. (Original) The device of claim 2, wherein at least one array of inkjet heads is positioned in one line according to a long side or a short side of the substrate to print the alignment layer onto the long or short side of the substrate at one time.

4. (Original) The device of claim 3, wherein a size and an arrangement of the inkjet heads are varied according to a size and a kind of the substrate.

5. (Original) The device of claim 2, wherein the printing part includes a print table to receive the substrate, and the inkjet head sprays the alignment material onto the substrate at a fixed state while the print table is moved in a horizontal direction.

6. (Original) The device of claim 2, wherein the printing part includes a print table to receive the substrate at a fixed state, and the inkjet head is moved over the substrate in a horizontal direction to spray the alignment material onto the substrate.

7. (Original) The device of claim 2, wherein the alignment material sprayed from the inkjet head is polyimide PI.

8. (Original) The device of claim 1, wherein the drying part includes a dry table to dry the alignment layer printed on the substrate by emitting heat.

9. (Original) The device of claim 8, wherein the dry table includes a hot plate emitting heat.

10. (Canceled)

11. (Original) The device of claim 1, wherein the alignment layer is an alignment layer provided in a liquid crystal display device.

12. (Original) The device of claim 1, wherein the printing part, the drying part and the transferring part are provided in a clean room.

13-14. (Canceled)

15. (Withdrawn) A method usable for forming an alignment layer of a display apparatus, the method comprising:

printing, by a printing part, an alignment layer on a substrate;

drying, by a drying part positioned above the printing part, the alignment layer printed on the substrate; and

transferring the substrate.

16. (Withdrawn) The method of claim 15, wherein the printing step includes:

spraying, by at least one inkjet head, an alignment material onto the substrate, the inkjet head being positioned between the printing part and the drying part.

17. (Withdrawn) The method of claim 16, wherein in the printing step, at least one array of inkjet heads is positioned in one line according to a long side or a short side of the substrate to print the alignment layer onto the long or short side of the substrate at one time.

18. (Withdrawn) The method of claim 17, wherein in the printing step, a size and an arrangement of the inkjet heads are varied according to a size and a kind of the substrate.

19. (Withdrawn) The method of claim 16, wherein the printing part includes a print table to receive the substrate, and in the printing step, the inkjet head sprays the alignment material onto the substrate at a fixed state while the print table is moved in a horizontal direction.

20. (Withdrawn) The method of claim 16, wherein the printing part includes a print table to receive the substrate at a fixed state, and in the printing step, the inkjet head is moved over the substrate in a horizontal direction to spray the alignment material onto the substrate.

21. (Withdrawn) The method of claim 16, wherein in the spraying step, the alignment material sprayed from the inkjet head is polyimide PI.

22. (Withdrawn) The method of claim 15, wherein in the printing step, the alignment layer is an alignment layer provided in a liquid crystal display device.